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## (12) United States Patent

Woodhill

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# (54) SYSTEM AND METHOD OF USING THE PUBLIC SWITCHED TELEPHONE NETWORK IN PROVIDING AUTHENTICATION OR AUTHORIZATION FOR ONLINE TRANSACTIONS

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(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 914 days.

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(65) **Prior Publication Data** 

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#### Related U.S. Application Data

(60) Provisional application No. 60/170,808, filed on Dec. 15, 1999.

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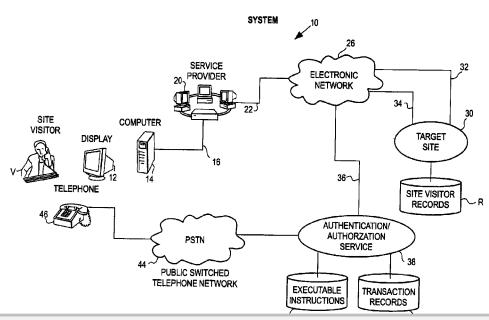
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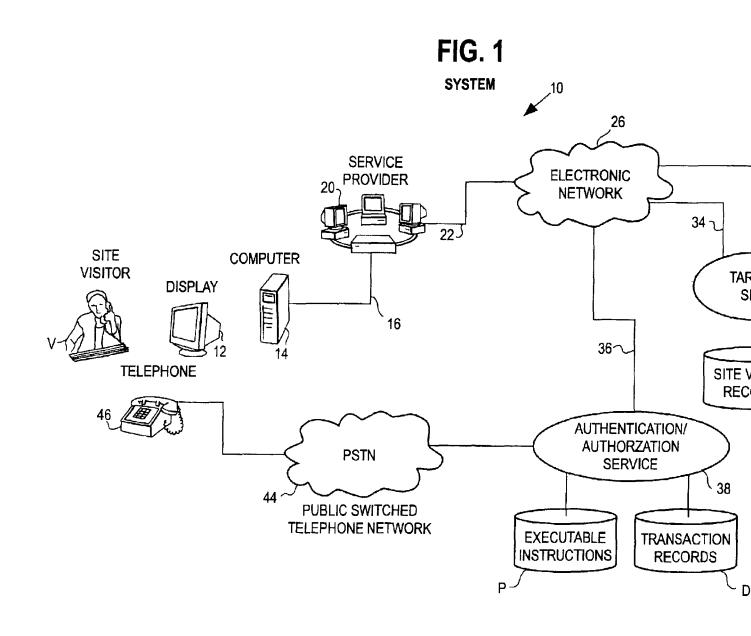
#### (57) ABSTRACT

An authentication or authorization system to facilitate electronic transactions uses simultaneous or substantially simultaneous communications on two different networks to verify a user's identity. When a user logs onto a site, via the internet, a telephone number, either pre-stored or obtained in real time from the visitor, where the visitor can be called essentially immediately is used to set up, via the switched telephone network another communication link. Where the user has multiple communication links available, the telephone call is automatically placed via the authentication or authorization software simultaneously while the user is on-line. In the event that the user has only a single communication link, that individual will have to log off temporarily for purposes of receiving the telephone call. Confirmatory information is provided via the internet to the user. The automatically placed telephone call requests that the user feed back this confirmatory information for verification purposes. The telephone number which is being called is adjacent to the user's internet terminal. The user's response, via the telephone network, can be compared to the originally transmitted confirmatory information to determine whether the authentication or authorization process should go forward.

### 59 Claims, 18 Drawing Sheets









# 102 THE SITE VISITOR ENTERS THE TARGET

SITE.

AN OVERVIEW OF THE PROCESS

REGISTRATION PROCESS AT THE TARGET SITE.

THE SITE VISITOR BEGINS THE



100

THE VISITOR REGISTERS
ON THE TARGET SITE'S
EXISTING REGISTRATION
PAGE.

# FIG. 2 FIG. 2B

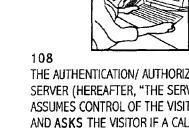
# FIG. 2A

...IS TEMPORARILY TRANSPORTED WHICH PLACES AN AUTOMATED I



106
THE TARGET SITE
CONFIRMS A PHONE
NUMBER FOR THE
VISITOR:

- THE TARGET SITE
  MIGHT ASK THE VISITOR
  IF A PHONE NUMBER
  STORED IN ITS SITE
  VISITOR RECORDS IS
  CORRECT; OR
- ASK THE VISITOR TO TYPE IN A PHONE NUMBER.



IF THE VISITOR ANSWERS "YES ONLINE SESSION CONTINUES." SERVER DISPLAYS A CONFIRMANUMBER ONSCREEN.

TO THE PHONE NUMBER WHILE I

IS ONLINE.

- IF THE VISITOR ANSWERS "NO."
- DISPLAYS A CONFIRMATION ONSCREEN, AS WELL AS THE URL "FINISH REGISTRATION" WEB PAGE
- TELLS THE VISITOR TO TAKE THE CONFIRMATION NUMBER AN
- INSTRUCTS THE VISITOR TO THE INTERNET



# FIG. 2B



110
THE SERVER CALLS THE VISITOR ON THE PHONE:

- AN AUTOMATED CALL FIRST CONFIRMS THAT THE CALL RECIPIENT IS THE VISITOR AND IS EXPECTING THE CALL.
- AN AUTOMATED CALL THEN ASKS THE VISITOR TO TYPE THE CONFIRMATION NUMBER DISPLAYED IN THE ONLINE SESSION.



OPTIONALLY, AN AUTOMATED CALL CAN TELL THE VISITOR TO SPEAK INTO THE PHONE, SO THAT THE SERVER CAN MAKE ONE OR MORE DIGITAL VOICE RECORDINGS. IN A STANDARD IMPLEMENTATION, THE AUTOMATED CALL MIGHT REQUEST UP TO TWO DISTINCT VOICE RECORDINGS, SUCH AS THE VISITOR RECITING HIS OR HER NAME, AND THEN RECITING AN AGREEMENT TO TERMS.

- VISITORS WHO REMAINED ONLINE DURING THE CALL CAN THEN HANG UP THE PHONE.
- VISITORS WHO HAD TO DISCONNECT FROM THE INTERNET ARE REMINDED TO RETURN TO THE "FINISH REGISTRATION" WEB PAGE AFTER HANGING UP.

AND RETURNS TO THE... TO CO<u>MPLETE THE PR</u>

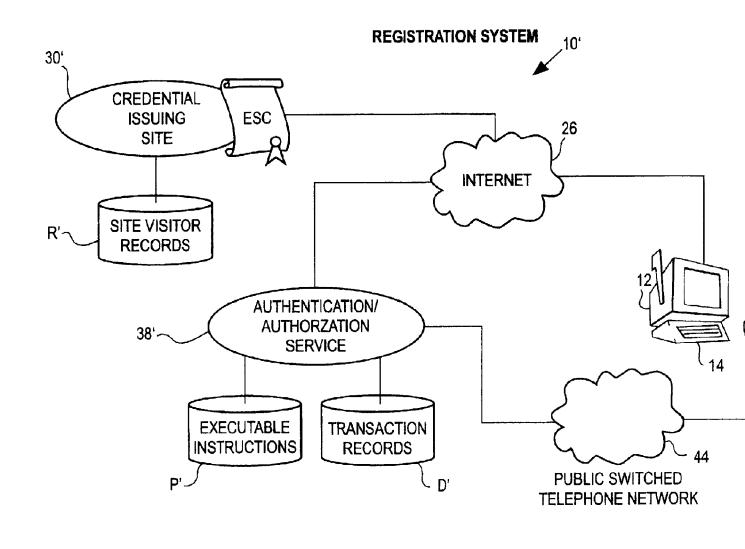


114
THE TARGET SITE REGAINS OF VISITOR'S BROWSER AND REFORM THE SERVER DESCRIBING TELEPHONE SESSION.

BASED ON THE SUCCESS OR F THE SERVER RESPONSE, THE WHETHER THE VISITOR HAS SA REQUIREMENTS FOR REGISTR



FIG. 3



# DOCKET

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